Application No.: 08/466,554
Amendment dated May 27, 2004
Reply to Advisory Action mailed May 18, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-41. (Canceled)

42. (Currently Amended) A method for screening a compound to determine its ability to alter the amount of an $A\beta$ (x-$\geq$ 41) peptide in a cerebral spinal fluid sample comprising:

measuring a first amount of one or more soluble $A\beta$ (x-$\geq$ 41) peptides in the cerebral spinal fluid sample of a non-human animal model that expresses amyloid-β precursor protein (APP) in the brain and processes it to the one or more soluble $A\beta$ peptides;

administering the compound to the non-human animal model;

measuring a second amount of the one or more soluble $A\beta$ peptides in the cerebral spinal fluid sample of the non-human animal model; and

comparing the first amount with the second amount,

the difference indicating whether the compound increases, decreases, or leaves unchanged the amount of soluble $A\beta$ (x-$\geq$ 41) in the cerebral spinal fluid sample, wherein the amount of $A\beta$(x-$\geq$ 41) is measured by exposing the cerebral spinal fluid to an antibody or fragment thereof specific for an epitope of $A\beta$(x-$\geq$ 41) but that does not cross react with an epitope of $A\beta$(x-$\leq$40).

43. (Currently Amended) The method of ~~claim 42~~claim 42, wherein the non-human animal model is a rodent model.

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44.   (Currently Amended) The method of claim ~~claim 43~~claim 43, wherein the rodent model is a mouse model.

45.   (Currently Amended) The method of claim ~~claim 42~~claim 42, wherein the non-human animal model is a transgenic animal model having an expression cassette that drives the expression of a sequence which encodes the Swedish mutation of an APP gene.

46.   (Currently Amended) The method of claim ~~claim 45~~claim 45, wherein the non-human animal model is a rodent model.

47.   (Canceled)

48.   (Currently Amended) The method of claim ~~claim 42~~claim 42, wherein Aβ(x-$\geq$ 41) is Aβ (x-42).

49-50. (Canceled)

51.   (New) The method of claim 42, wherein antibody or fragment thereof is an antibody recognizing an epitope on Aβ having amino acid residues 33-42.

52.   (New) The method of claim 51, wherein the antibody or fragment thereof is an antibody that will specifically bind to Aβ (x-$\geq$ 41).

53.   (New) The method of claim 51, wherein the antibody or fragment thereof is an antibody that will specifically bind to Aβ (x-$\geq$ 42).

54.   (New) The method of claim 51, wherein the antibody or fragment thereof is an antibody that will specifically bind to Aβ (x-$\geq$ 43).

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